Machine Control

Learn more about our products that allow the use of precision agriculture in cultivation, harvesting and transportation operations.
Hexagon has the most complete solution for precision agriculture. Our products work to monitor and manage operations and automate tractors, machinery and equipment. This solution works in different phases of the agricultural and forestry process, from soil preparation, planting, cultivation to harvesting and raw material transportation.

The products ensure quality and efficiency throughout the entire process, helping the operator perform tasks with the utmost accuracy. In addition, the products are able to offer cost reduction in operations with work area optimisation and the smart use of resources and inputs.

Understand how precision farming increases the profitability of your business*:

- 25% reduction in inputs with the variable rate controller
- 10% better fuel usage
- 5% increase in planted area
- More than 10% increase in productivity
- 20% reduction of inputs with section control

* values may vary according to working accuracy
LEARN MORE ABOUT OUR HxGN AgrOn PRODUCTS

AgrOn Guidance
Orientation system to maintain alignment with tractors, machinery and agricultural and forestry equipment while executing routes.

- Precision in every operation – straight lines, curves and pivots
- Multiple options of orientation
- Ability to upload map file to system for guidance
- Ability to mark objects on the map

AgrOn Auto Steering
Automated precision navigation system for tractor, machinery and agricultural and forestry equipment.

- Compatible with electric or hydraulic activation, and also with steer ready tractors*
- Correction system for slope and abrupt maneuvers
- Ability to work in straight lines, curves and pivots
- Adaptability to most tractors on the market
- High performance guaranteeing better adjustment to the route
- Possibility of loading lines projected in the office

*Check available accuracy for each model.
**AgrOn Planting Control**

*Automated planter control system.*
- High precision controller
- Controls up to five simultaneous inputs, one of seed, three of fertilisers and one of liquids
- Calibration and simple operation
- Fixed and variable seed rate planting
- Monitors and controls each section of seed or fertiliser

**AgrOn Seedling Marker**

*Generates maps of seedlings and pits through georeferencing for forestry operations.*
- Activation of the points through analog or digital sensors
- Facilitates irrigation and fertilisation in each seedling through georeferencing markings
AgrOn Planting Monitor

Seed spacing monitoring system.
- Improved calibration with simple setup
- Measures seed population
- Night planting ability
- Reduction of application failures
- Prevention of over-planting

AgrOn Subsoiling Control

Automated subsoiling depth monitor system.
- Simple calibration and operation
- Allows visualisation of measurements during operation
- Registers detailed operating information

AgrOn Bait Control

Automated control system for application of formicidal baits in forestry operations.
- Monitors and controls the application of formicidal bait (1, 2 or 3 actuators)
- Export maps of systematic georeferenced application
- Enables localised application and georeferencing of ant nests
**AgrOn Sprayer Control**

*Automated control system for spray sections during application.*

- Automatic control of the spraying section
- Enables manual control of sections
- Enables automatic section closure
- Allows installation with various valve assemblies
- Monitors and controls the application of up to 2 liquid inputs in up to 16 sections

**AgrOn ISOBUS Display**

*Standard connection between display, electronic systems, implements and machines.*

- Includes the Universal Terminal (UT) and the Task Controller (TC)
- Has TC-BAS, TC-SC and TC-GEO capabilities
- Plug-and-play installation on steer ready machines
- Possibility of section shutdown and control at fixed and variable rate
- Activity logging and telemetry
- Works on agricultural and forestry machinery
- Integrated with Ti7 display

**AgrOn Machine Monitoring**

*Monitoring system for machines and fleets in the field.*

- Read RPM and/or similar parameters of the machine
- Time and downtime monitoring
- Speed information of the operation on the onboard controller
- Integration with pre-existing sensors of the machine
- Allows you to configure alarms
- Integrated with software to register operations
**AgrOn Haul-Out Dynamic Allocation**

*Synchronised system for allocation of haul-out transporter and the cutting pace of harvesters.*

- Indicates the ideal moment for moving a haul-out tractor assembly to a harvester
- Considers distances, paths and times of movement on the cutting front
- Increases the total time of operation of harvesters, due to the reduction of the waiting time by available haul-outs

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**AgrOn Fertilisation Control**

*Automated control system for fertiliser and limestone applications.*

- Possibility of installation on track and electric variable rate
- Calibration and simple operation
- High precision controller
- Visualisation during operation
- Detailed operation information records
- Monitors and controls the application of up to three solid inputs
- Import maps (.shp) previously defined in the office
- Section shutdown on hydraulic motors
Remote Access

System for remote access to displays for technical assistance and calibrations.

- Remote monitoring of the machine
- Ensures fast, efficient and cost-effective service
- Provides control of the display for quick service
- Accepts different Internet connections: cable, Wi-Fi, 4G, 3G and even 2G
Onboard controllers allow users to use Hexagon’s products for precision farming. They are compatible with several machines on the market and attend the needs of each customer, making it possible to include only one or even all products in a single equipment.

<table>
<thead>
<tr>
<th>Features</th>
<th>Ti5</th>
<th>Ti7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>5&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>Multi-touch screen</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rugged aluminum case</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Contrast screen for viewing in daylight or in low visibility</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple language support</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Detailed operation information record</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Wi-Fi 2.4GHz</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Digital Radio 900 or 433MHz</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cellular 4G+ with 28 band support (700MHz)</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>ISOBUS Connection</td>
<td>-</td>
<td>Yes</td>
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<tr>
<td>Quantity of products per equipment</td>
<td>Up to 3</td>
<td>No limit</td>
</tr>
<tr>
<td>Reading maps in Shape format (.shp)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Protection Index</td>
<td>IP65</td>
<td>IP64</td>
</tr>
</tbody>
</table>

* Check the communication available on each model
** Ti5 compatible with three products, AgrOn Auto Steering eletric, AgrOn Guidance and a product to choose
FARMING ACCURACY

- GNSS L1 10Hz - GPS/Glonass 28cm (pass to pass, 15min)
- GNSS L1/L2 20Hz - GPS/Glonass 15cm (pass to pass, 15min)
- GNSS L1/L2/Lband 20Hz - GPS/Glonass/TerraStar (4cm absolute)
- GNSS L1/L2/Lband 20Hz - GPS/Glonass/TerraStar (2.5cm absolute)
- GNSS L1/L2 20Hz - GPS/Glonass/RTK - 2 cm (absolute)

OPERATION MODE

- A-B Line
- A + Heading
- Parallel A-B Curve
- Adaptative Curve
- Pivot
Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications. Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon’s Agriculture division develops and delivers information technology solutions that unleash the full potential of agricultural assets, driving big gains in efficiency, productivity and sustainability. Our solutions convert data into intelligent, actionable information that enables smart planning, efficient field execution, precise machine controls and automated workflows that optimise operations.

Our aim is to accelerate innovation within the agriculture sector with solutions that challenge the status quo — what is — and point our customers towards what should be, the digital transformation of agriculture.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR.

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